



# RIA meeting: *Proposing and processing MEGARA observations with GTC*



-- PROGRAM --

Tuesday, September 19<sup>th</sup> 2017

## *Instrument characteristics and results from the MEGARA commissioning*

- 15:00 – 15:15 Welcome *María Luisa Lucía Mulas (UCM Physics Dean)*
- 15:15 – 15:45 Instrument summary *Armando Gil de Paz (UCM)*
- 15:45 – 16:15 Instrument performance at commissioning *Marisa García Vargas (Fractal)*
- 16:15 – 16:45 Early scientific observations with MEGARA *Armando Gil de Paz (UCM)*
- 16:45 – 17:15 *Coffee break*
- 17:15 – 17:45 Observing Preparation & Processing Software *África Castillo-Morales (UCM)*
- 17:45 – 18:00 Instructions for the hands-on workshops *África Castillo-Morales (UCM)*
- 18:00 – 19:00 Questions and open discussion

Wednesday, September 20<sup>th</sup> 2017

## *Science with MEGARA and observing preparation tools*

- 10:00 – 10:15 GTC and MEGARA working together *Antonio Cabrera-Lavers (GRANTECAN)*
- 10:15 – 10:30 Star forming galaxies with MEGARA *Jorge Iglesias (IAA-CSIC)*
- 10:30 – 10:45 MEGARA library of stellar spectra *Esperanza Carrasco Licea (INAOE)*
- 10:45 – 11:00 Studying galactic winds with MEGARA *África Castillo Morales (UCM)*
- 11:00 – 11:15 Gas and stellar populations in the low metallicity galaxy CSFG J1608+3528  
*Marisa García Vargas (Fractal)*
- 11:15 – 11:30 Analysis of the MEGARA commissioning spectra of Haro 44 using the LCB mode  
*Esperanza Carrasco Licea (INAOE, on behalf of Divakara Mayya)*
- 11:30 – 11:45 MEGARA IFU data of BCD galaxy Mrk324 *Ismael Martínez Delgado (Fractal)*
- 11:45 – 12:15 *Coffee break*



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- 12:15 – 12:30 Exploring the massive stellar content of the Local Universe with MEGARA  
*Artemio Herrero (IAC)*
- 12:30 – 12:45 The local compact Star-Forming galaxy NGC7673 revisited: new light from  
GTC/MEGARA  
*Jesús Gallego (UCM)*
- 12:45 – 13:30 Questions and open discussion
- 13:30 – 15:00 *Lunch*
- 15:00 – 16:00 Preparing MEGARA observations:
- 15:00 – 15:20 Exposure Time Calculator  
*Alexandre Bouquin (UCM)*
- 15:20 – 15:40 MOS Configurator  
*Jorge Iglesias (IAA-CSIC)*
- 15:40 – 16:00 GTC Phase 2  
*Daniel Pérez Reverte (GRANTECAN)*
- 16:00 – 19:00 Hands-on workshop on ETC, MOS Configurator and GTC Phase 2 (30 min break  
included)
- 21:00 Informal dinner at *ALCARAVEA restaurant* (Cea Bermudez, 38)

Thursday, September 21<sup>st</sup> 2017

## *Science with MEGARA and data processing*

- 10:00 – 10:15 Spectral Library for PopStar with MEGARA: a Filler Project for MEGARA-GTC  
*Mercedes Mollá (CIEMAT)*
- 10:15 – 10:30 MEGARA, a workhorse instrument for the physics of planetary nebulae  
*Jorge García-Rojas (IAC)*
- 10:30 – 10:45 Open Clusters Chemical Abundances from Spanish Observatories OCCASO  
extension  
*Lola Balaguer-Nuñez (UB)*
- 10:45 – 11:00 A kinematical study of circumnuclear star-forming regions of nearby galaxies  
*Ángeles I. Díaz (UAM)*
- 11:00 – 11:15 Spatially resolved studies of Diffuse Interstellar Bands in Galaxies outside of  
the Local Group  
*Ana Monreal Ibero (IAC)*
- 11:15 – 11:30 From CALIFA to MEGARA: Exploring the central regions of galaxies  
*F. Fabián Rosales Ortega (INAOE)*



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- 11:30 – 11:45 Negative feedback in starburst galaxies up to  $z=1$ : A case study for MEGARA  
*Alejandro Lumbreras Calle (IAC)*
- 11:45 – 12:15 *Coffee break*
- 12:15 – 12:30 FADO: a novel spectral population synthesis tool for the exploration of galaxy evolution by means of genetic optimization under self-consistency boundary conditions  
*Polychronis Papaderos (IA Porto)*
- 12:30 – 12:45 Why massive and compact galaxies “disappear” across cosmic time?  
*Fernando Buitrago (IA Porto)*
- 12:45 – 13:00 Confirming a proto-cluster at  $z=6.5$  *José M. Rodríguez Espinosa (IAC)*
- 13:00 – 13:15 Improving the accuracy of lensing models of HFF clusters *José M. Diego (IFCA)*
- 13:15 – 13:30 Searching for Ly- $\alpha$  emission in Damped Lyman- $\alpha$  Systems  
*Mónica Relaño (U Granada)*
- 13:30 – 13:45 Dissecting Hell-emitters: spectral templates for the sources of the cosmic dawn  
*Jorge Iglesias (IAA-CSIC, on behalf of Carolina Kehrig)*
- 13:45 – 15:15 *Lunch*
- 15:15 – 16:00 Processing MEGARA observations:
- 15:15 – 15:45 Data Reduction Pipeline (DRP) *Sergio Pascual (UCM)*
  - 15:45 – 16:00 Quicklook *Pedro Gómez Álvarez (Fractal)*
- 16:00 – 19:00 Hands-on workshop on the DRP installation (30 min break included)

Friday, September 22<sup>nd</sup> 2017

### *MEGARA Data Reduction Pipeline*

- 10:00 – 13:00 Hands-on workshop on the DRP execution using real commissioning data on astronomical targets (30 min break included)
- 13:00 End of meeting *Vicent J Martínez (RIA coordinator)*